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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Title: SUPEROX PROCESS FOR
INCREASING PROCESSING CAPACITY
OF SULFUR RECOVERY FACILITIES

Inventor(s): Thomas King Tong Chow
Assignee(s): Parsons Energy & Chemicals
Group, Inc.

Serial No.: 09/596892

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Group No.: 1754

Examiner: Timothy Vanoy

Attorney Docket No.: 9905.1P7

**AMENDMENT AND REQUEST FOR
RECONSIDERATION**

Assistant Commissioner for Patents
Washington, DC 20231

RECEIVED
FEB 03 2003
OFFICE OF PETITIONS

Sir:

In response to the last Office Action, Applicant respectfully requests entry of amendments to the above application as follows:

Appendix 1 is attached and incorporated into this amendment made in the above application and contains the amended paragraphs of the specification and/or claims in the form showing stricken material in brackets and new material as underlined.

Specification and Abstract:

Please amend Page 1, lines 8 to 10, as follows:

The present invention relates to a process for obtaining elemental sulfur from gas comprising hydrogen sulfide and optionally sulfur dioxide. The present invention also relates to retrofitting existing sulfur recovery units for greater than about 25% increase in sulfur recovery.

Please amend Page 1, lines 15 to 20, as follows:

In a well known method for practicing the modified Claus process, an acid gas feed comprising at least more than about 30 mole percent hydrogen sulfide mixed with a process air stream, the mixture being ignited to form an open flame or flames within a furnace. About one third of the hydrogen sulfide in the acid gas feed which is not converted to elemental sulfur in the furnace is thermally oxidized with the

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